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United States
Department of
Agriculture

Soil
Conservation
Service

Montana
Basin Outlook Report
January 1, 1994

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See Attached List

How forecasts are made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated SNOTEL measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via meteor burst telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

Forecast uncertainty originates from two sources: (1) uncertainty of future hydrologic and climatic conditions, and (2) error in the forecasting procedure. To express the uncertainty in the most probable forecast, four additional forecasts are provided. The actual streamflow can be expected to exceed the most probable forecast 50% of the time. Similarly, the actual streamflow volume can be expected to exceed the 90% forecast volume 90% of the time. The same is true for the 70%, 30%, and 10% forecasts. Generally, the 90% and 70% forecasts reflect drier than normal hydrologic and climatic conditions; the 30% and 10% forecasts reflect wetter than normal conditions. As the forecast season progresses, a greater portion of the future hydrologic and climatic uncertainty will become known and the additional forecasts will move closer to the most probable forecast.

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MONTANA Water Supply Outlook Report as of January 1, 1994

Montana is getting off to a slow start with regards to the snowpack conditions measured for the January 1 report. Of the thirteen major river basins in Montana, nine were below average (more than 10% below average) and five were well below average (more than 30% below average).

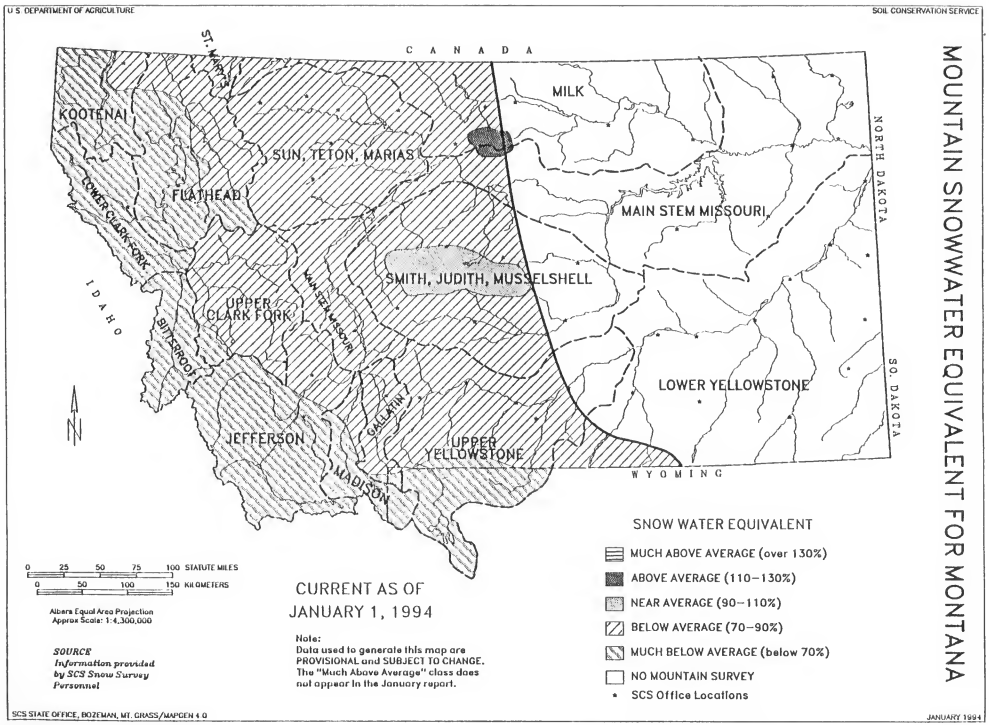
Even though Montana is below to well below average for this time of year, we should only have less than 50% of the total winter snowpack on the ground at this time. January has historically been a good snow producer, so hopefully we won't be let down this year.

SNOWPACK

As of January 1, the best major river basin snowpack conditions occur in the Smith-Judith-Musselshell River Basins at 88% of average and 6% below last year. The worst occur in the Lower Clark Fork River Basin at 60% of average and 38% below last year. Snowpacks across the state average 25% below those of last year at this time.

West of the Continental Divide, snowpacks were 67% of average and 31% below those of last year. East of the Continental Divide, snowpacks were 76% of average and 21% below last year.

RIVER BASIN	% OF AVERAGE	% OF LAST YEAR
KOOTENAI	73	78
FLATHEAD	71	68
UPPER CLARK FORK	70	77
BITTERROOT	61	61
LOWER CLARK FORK	60	62
JEFFERSON	63	65
MADISON	61	52
GALLATIN	73	70
MAINSTEM MISSOURI	87	92
SMITH-JUDITH-MUSSELSHELL	88	94
SUN-TETON-MARIAS	83	86
ST. MARY AND MILK	86	89
UPPER YELLOWSTONE	69	78
LOWER YELLOWSTONE	72	82


U S DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
MOUNTAIN SNOWWATER EQUIVALENT FOR MONTANA
CANADA
ST. MARY'S
KOOTENAI
SUN, TETON, MARIAS
MILK
FLATHEAD
MAIN STEM MISSOURI
NORTH DAKOTA
LOWER CLARK FORK
SMITH, JUDITH, MUSSELSHELL
IDAHO
UPPER CLARK FORK
MIDDLE MISSOURI
BITTERROOT
LOWER YELLOWSTONE
SO. DAKOTA
JEFFERSON
GALLATIN
UPPER YELLOWSTONE
MADISON
WYOMING
N
0 25 50 75 100 STATUTE MILES
0 50 100 150 KILOMETERS
Albers Equal Area Projection
Approx Scale: 1:4,300,000
SOURCE
Information provided by SCS Snow Survey Personnel
CURRENT AS OF JANUARY 1, 1994
Note:
Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE. The "Much Above Average" class does not appear in the January report.
SNOW WATER EQUIVALENT
MUCH ABOVE AVERAGE (over 130%)
ABOVE AVERAGE (110–130%)
NEAR AVERAGE (90–110%)
BELOW AVERAGE (70–90%)
MUCH BELOW AVERAGE (below 70%)
NO MOUNTAIN SURVEY
SCS Office Locations
SCS STATE OFFICE, BOZEMAN, MT. GRASS/MAPGEN 4.0
JANUARY 1994

S N O W C O U R S E D A T A

JANUARY 1994

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
MONTANA						
ASHLEY LAKE	4000	1/05/94	18	3.2	--	2.4
ASHLEY DIVIDE	4820	1/05/94	19	3.9	--	3.4
BADGER PASS PILLOW	6900	1/01/94	---	9.9	11.8	14.2
BANFIELD MTN PILLOW	5600	1/01/94	---	6.0	7.7	9.0
BARKER LAKES PILLOW	8250	1/01/94	---	5.7	5.1	6.8
BASIN CREEK PILLOW	7180	1/01/94	---	3.5	3.2	3.3
BEAGLE SPGS PILLOW	8850	1/01/94	---	2.8	3.3	3.7
BEAVER CREEK PILLOW	7850	1/01/94	---	4.7	9.0	7.9
BISSON CREEK PILLOW	4920	1/01/94	---	3.7	4.4	3.9
BISSON CREEK	4920	12/27/93	16	3.4	5.1	4.1
BLACK BEAR PILLOW	7950	1/01/94	---	10.6	19.4	15.6
BLACK PINE PILLOW	7100	1/01/94	---	3.9	4.2	4.9
BLOODY DICK PILLOW	7550	1/01/94	---	2.5	4.9	5.1
BOULDER MTN PILLOW	7950	1/01/94	---	7.8	8.6	8.4
BOX CANYON PILLOW	6700	1/01/94	---	3.4	4.9	4.5
BOXELDER CREEK	5100	12/28/93	24	5.2	4.4	4.3
BRIDGER BOWL PILLOW	7250	12/30/93	---	8.6	8.7	10.5
BRIDGER BOWL	7250	12/30/93	35	9.8	9.7	10.6
CALVERT CR PILLOW	6430	1/01/94	---	2.0	4.2	4.1
CARROT BASIN PILLOW	9000	1/01/94	---	8.5	14.8	11.9
CHESSMAN RESERVOIR	6200	12/28/93	6	1.4	1.0	1.5
CLOVER MDW PILLOW	8800	1/01/94	---	6.6	8.8	7.9
COLE CREEK PILLOW	7850	1/01/94	---	9.9	6.1	7.7
COMBINATION PILLOW	5600	1/01/94	---	1.5	2.2	2.3
COPPER BOTTOM PILLOW	5200	1/01/94	---	3.9	6.1	4.7
COPPER CAMP PILLOW	6950	1/01/94	---	6.2	11.4	13.6
COYOTE HILL	4200	1/03/94	26	4.3	4.2	4.1
CRYSTAL LAKE PILLOW	6050	1/01/94	---	7.7	6.3	5.3
DAISY PEAK	7600	12/29/93	15	2.3	2.8	5.1
DALY CREEK PILLOW	5780	1/01/94	---	3.7	4.9	5.4
DARKHORSE LK. PILLOW	8700	1/01/94	---	6.5	11.7	15.5
DEADMAN CR PILLOW	6450	1/01/94	---	4.4	4.3	4.4
DESERT MOUNTAIN	5600	1/02/94	28	6.0	7.3	6.7
DISCOVERY BASIN	7050	12/29/93	19	3.8	3.8	4.4
DIVIDE PILLOW	7800	1/01/94	---	3.1	5.6	4.8
DIX HILL	6400	1/01/94	16	3.0	3.6	5.0
DUPUYER CREEK PILLOW	5750	1/01/94	---	5.3	3.8	4.8
EMERY CREEK PILLOW	4350	1/01/94	---	5.6	7.2	7.2
FISHER CREEK PILLOW	9100	1/01/94	---	9.0	16.4	15.6
FLATTOP MTN PILLOW	6300	1/01/94	---	14.8	17.1	21.0
FROHNER MDWS PILLOW	6480	1/01/94	---	2.5	3.1	3.4
GARVER CREEK	4250	1/02/94	22	4.9	5.5	4.9
GRAVE CRK PILLOW	4300	1/01/94	---	7.1	7.3	7.7
HAND CREEK PILLOW	5030	1/01/94	---	3.8	6.0	5.5
HAWKINS LAKE PILLOW	6450	1/01/94	---	7.1	8.3	13.0
HEBGEN DAM	6550	12/30/93	15	2.7	7.2	4.9
HELL ROARING DIVIDE	5770	12/30/93	34	7.7	13.6	13.0
HOLBROOK	4530	12/26/93	15	2.4	4.8	4.0
HOODOO BASIN PILLOW	6050	1/01/94	---	11.0	17.3	19.0
HOODOO BASIN	6050	1/01/94	---	12.3E	19.8	20.4
HOODOO CREEK	5900	1/01/94	---	10.8E	17.0	18.0
JOHNSON PARK	6450	12/29/93	10	1.6	1.4	3.3

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
KIWANIS CAMP	3720	12/28/93	7	1.2	1.0	1.1
KRAFT CREEK PILLOW	4750	1/01/94	---	5.1	6.5	6.6
LAKEVIEW RDG. PILLOW	7400	1/01/94	---	1.5	6.1	5.4
LEMHI RIDGE PILLOW	8100	1/01/94	---	2.6	4.1	4.4
LICK CREEK PILLOW	6860	1/01/94	---	4.4	4.7	5.6
LONE MOUNTAIN	8880	1/04/94	31	6.7	11.0	10.1
LOWER TWIN PILLOW	7900	1/01/94	---	3.6	7.1	9.5
LUBRECHT PILLOW	4680	1/01/94	---	1.9	2.4	2.4
LUBRECHT FOREST NO 3	5450	1/03/94	13	2.0	3.0	2.6
LUBRECHT FOREST NO 4	4650	1/03/94	9	1.4	1.9	1.4
LUBRECHT FOREST NO 6	4040	1/03/94	10	1.3	2.0	1.6
LUBRECHT HYDROPLOT	4200	1/03/94	15	2.0	2.4	2.8
MADISON PLT PILLOW	7750	1/01/94	---	6.5	11.7	10.1
MANY GLACIER PILLOW	4900	1/01/94	---	5.8	7.1	7.3
MARIAS PASS	5250	12/30/93	21	6.6	8.9	6.7
MAYNARD CR PILLOW	6210	12/30/93	---	4.2	3.9	4.6
MAYNARD CREEK	6210	12/30/93	20	5.0	4.8	5.8
MONUMENT PK PILLOW	8850	1/01/94	---	6.8	8.5	9.2
MOSS PEAK PILLOW	6780	1/01/94	---	12.2	17.5	16.1
MOULTON RESERVOIR	6850	12/27/93	14	3.0	3.6	2.6
MT LOCKHART PILLOW	6400	1/01/94	---	6.9	7.9	8.8
MULE CREEK PILLOW	8300	1/01/94	---	4.3	5.6	6.8
NEVADA CREEK PILLOW	6480	1/01/94	---	4.1	5.4	5.7
NEZ PERCE CMP PILLOW	5650	1/01/94	---	3.7	6.6	5.7
NOISY BASIN PILLOW	6040	1/01/94	---	13.9	20.1	17.2
N.F. ELK CR PILLOW	6250	1/01/94	---	3.7	4.5	4.6
NF JOCKO PILLOW	6330	1/01/94	---	11.1	17.6	17.9
NORTH FORK JOCKO	6330	12/30/93	36	9.8	17.6	18.4
N.E. ENTRANCE PILLOW	7350	1/01/94	---	1.7	3.6	4.0
NORTHEAST ENTRANCE	7350	12/31/93	11	1.2E	3.8	3.7
OPHIR PARK	7150	1/01/94	20	4.2	5.0	7.0
PETERSON MDW PILLOW	7200	12/29/93	---	3.4	3.5	4.2
PETERSON MEADOWS	7200	12/29/93	17	3.2	3.5	4.2
PICKFOOT CRK PILLOW	6650	1/01/94	---	4.0	5.8	4.9
PIKE CREEK PILLOW	5930	1/01/94	---	8.7	12.0	11.4
PIPESTONE PASS	7200	12/30/93	10	1.6	1.6	2.1
PLACER BASIN PILLOW	8830	1/01/94	---	8.9	9.6	9.4
PORCUPINE PILLOW	6500	1/01/94	---	2.0	2.5	3.2
REVAIS CREEK	4800	12/28/93	4	.8	2.8	1.6
ROCKER PEAK PILLOW	8000	1/01/94	---	4.8	5.5	6.4
ROCKY BOY PILLOW	4700	12/28/93	---	3.8	3.1	2.2
ROCKY BOY	4700	12/28/93	14	2.8	1.4	1.8
SACAJAWEA	6550	12/30/93	17	4.6	--	--
SADDLE MTN PILLOW	7900	1/01/94	---	5.8	10.6	11.1
SHORT CREEK PILLOW	7000	1/01/94	---	2.5	3.3	2.5
SHOWER FALLS PILLOW	8100	1/01/94	---	8.2	10.5	10.4
SILVER RUN PILLOW	6630	1/01/94	---	3.1	2.2	2.0
SKALKAHO PILLOW	7260	1/01/94	---	5.1	8.3	9.8
S.F. SHIELDS PILLOW	8100	1/01/94	---	5.3	6.0	7.5
SPOTTED BEAR MTN.	7000	12/26/93	19	4.4	6.9	6.6
SPUR PARK PILLOW	8100	1/01/94	---	8.3	9.4	9.8
SQUAW PEAK	6150	12/28/93	21	5.5	6.9	6.0
STAHL PEAK PILLOW	6030	1/01/94	---	12.5	14.9	16.0
STORM LAKE	7780	1/04/94	21	4.2	4.5	5.4
STUART MOUNTAIN	7400	12/30/93	32	6.5	11.6	13.4
SUCKER CREEK	3960	12/28/93	0	.0	.0	.6
TAYLOR ROAD	4080	12/28/93	17	3.3	2.6	2.0
TEN MILE LOWER	6600	12/28/93	15	2.8	3.2	3.0

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-90
TEN MILE MIDDLE	6800	12/28/93	19	3.8	4.3	4.7
TEPEE CREEK PILLOW	8000	1/01/94	---	3.4	7.8	5.7
TIZER BASIN PILLOW	6840	1/01/94	---	4.2	3.6	4.8
TRINKUS LAKE	6100	12/26/93	41	12.4	23.0	18.7
TRUMAN CREEK	4060	12/22/93	10	1.9	--	2.0
TV MOUNTAIN	6800	12/30/93	21	3.2	6.2	7.2
TWELVEMILE PILLOW	5600	1/01/94	---	5.3	8.9	7.2
TWENTY-ONE MILE	7150	12/29/93	17	3.3	9.0	7.3
UPPER HOLLAND LAKE	6200	12/26/93	31	8.8	17.4	15.8
WALDRON PILLOW	5600	1/01/94	---	5.1	5.2	5.0
WARM SPRINGS PILLOW	7800	1/01/94	---	6.5	7.2	9.4
WEASEL DIVIDE	5450	1/02/94	45	11.6	12.0	--
WEST YELL'ST PILLOW	6700	12/29/93	---	1.6	5.4	4.0
WEST YELLOWSTONE	6700	12/29/93	17	2.8	7.4	4.8
WHISKEY CREEK PILLOW	6800	1/01/94	---	4.0	8.9	7.0
WHITE MILL PILLOW	8700	1/01/94	---	6.1	8.8	11.4
WOOD CREEK PILLOW	5960	1/01/94	---	3.5	3.6	4.4

PRECIPITATION

Fall mountain precipitation statewide has been below average with November adding the least. West of the divide, fall precipitation was 29% below average and east of the divide, it was 24% below average.

RIVER BASIN	DECEMBER % OF AVERAGE	WATER YEAR % OF AVERAGE
KOOTENAI	76	67
FLATHEAD	73	72
UPPER CLARK FORK	48	69
BITTERROOT	59	64
LOWER CLARK FORK	59	64
JEFFERSON	63	65
MADISON	82	66
GALLATIN	97	74
MAINSTEM MISSOURI	72	79
SMITH-JUDITH-MUSSELSHELL	104	96
SUN-TETON-MARIAS	57	77
ST. MARY AND MILK	77	72
UPPER YELLOWSTONE	74	73
LOWER YELLOWSTONE	73	90

RESERVOIRS

Reservoir storages statewide were 114% of average and 70% above those of last year. West of the divide, reservoirs are 78% of average and 14% above last year. East of the divide, reservoirs are 107% of average and 12% above last year.

RIVER BASIN	% OF CAPACITY	% OF AVERAGE
KOOTENAI	48	90
FLATHEAD	49	68
UPPER CLARK FORK	80	117
BITTERROOT	11	33
LOWER CLARK FORK	93	98
JEFFERSON	57	111
MADISON	68	102
GALLATIN	38	115
MAINSTEM MISSOURI	85	102
SMITH-JUDITH-MUSSELSHELL	79	146
SUN-TETON-MARIAS	59	129
ST. MARY AND MILK	37	86
UPPER YELLOWSTONE	51	96
LOWER YELLOWSTONE	64	99

STREAMFLOW

Streamflow forecasts across Montana are 74% of average and 19% below last years forecasts. West of the divide, streamflows are forecast at 74% of average and 17% below last year and east of the divide are forecast at 75% of average and 21% below last year.

RIVER BASIN	FORECAST AS % OF AVERAGE	FORECAST AS % OF LAST YEAR
KOOTENAI	84	95
FLATHEAD	75	84
UPPER CLARK FORK	73	83
BITTERROOT	69	72
LOWER CLARK FORK	70	78
JEFFERSON	63	68
MADISON	80	76
GALLATIN	76	70
MAINSTEM MISSOURI	71	72
SMITH-JUDITH-MUSSELSHELL	92	118
SUN-TETON-MARIAS	82	90
ST. MARY AND MILK	76	86
UPPER YELLOWSTONE	78	83
LOWER YELLOWSTONE	77	87

NOTE: The FORECAST AS % OF LAST YEAR column above, is this years forecast as a percent of last years forecast, not of what actually occurred.

SURFACE WATER SUPPLY INDEX

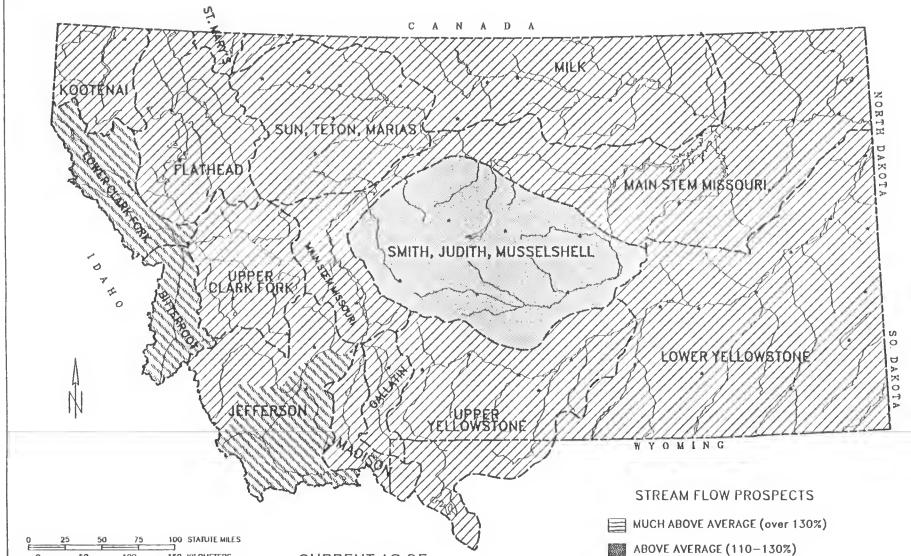
Surface Water Supply Indexes are not computed this month, but will begin February 1 and run through August 1.

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

STREAM FLOW PROSPECTS FOR MONTANA

Spring and Summer Period



Albers Equal Area Projection
Approx Scale: 1:4,300,000

SOURCE
Information provided by SCS Snow Survey Personnel

CURRENT AS OF
JANUARY 1, 1994

Note:
Data used to generate this map are PROVISIONAL and SUBJECT TO CHANGE. The following classes do not appear in the January report: "Much Above Average" and "Abave Average"

STREAM FLOW PROSPECTS

- MUCH ABOVE AVERAGE (over 130%)
- ABOVE AVERAGE (110–130%)
- NEAR AVERAGE (90–110%)
- BELOW AVERAGE (70–90%)
- MUCH BELOW AVERAGE (below 70%)
- SCS Office Locations

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JANUARY 1994

KOOTENAI RIVER BASIN in Montana as of January 1, 1994

Snowpack conditions in the Kootenai River Basin are below average. Snow water content was 73% of average and 22% below last year. The Kootenai Mainstem, in Montana, water content was 73% of average and 22% below last year; Tobacco Basin was 83% of average and 12% below last year; Fisher Basin was 69% of average and 37% below last year; and the Yaak was 67% of average and 13% below last year.

Mountain precipitation for December was 76% of average and 8% below last year. Water year precipitation, beginning October 1, 1993, was 67% of average and 17% below last year.

Lake Koocanusa storage on the last day of December was 90% of average and 24% above last year.

Streamflows, for the period April through July, are forecast to be 84% of average and 5% below those of last year.

KOOTENAI RIVER BASIN in Montana
Streamflow Forecasts - January 1, 1994

	<--- Drier ---		Future Conditions		--- Wetter --->		
Forecast Pt	Chance of Exceeding *						
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
TOBACCO nr Eureka							
APR-JUL	59	81	96	72	111	133	133
APR-SEP	69	91	107	73	123	146	147
KOOTENAI bl Libby Dam (1,2)							
APR-JUL	3070	4370	4960	86	5550	6850	5779
APR-SEP	3590	5120	5810	86	6500	8030	6772
FISHER nr Libby							
APR-JUL	101	150	184	79	220	270	234
APR-SEP	112	163	198	79	235	285	250
YAAK near Troy							
APR-JUL	215	290	340	70	390	465	483
APR-SEP	235	310	360	71	410	485	505
KOOTENAI at Leonia (1,2)							
APR-JUL	3650	5280	6020	84	6760	8390	7199
APR-SEP	4200	6070	6920	84	7770	9640	8275

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

KOOTENAI RIVER BASIN in Montana
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
LAKE KOOCANUSA	5748.0	2757.0	2220.0	3050.0

KOOTENAI RIVER BASIN in Montana
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
EAST KOOTENAI in B.C.	12	113	76
KOOTENAI MAINTSTEM in MT	7	78	73
TOBACCO	2	88	83
FISHER	1	63	69
YAAK	3	85	60
KOOTENAI in MT	7	78	73
KOOTENAI ab Bonners Ferry	19	96	75

FLATHEAD RIVER BASIN as of January 1, 1994

Snowpack conditions in the Flathead River Basin are below average. Snow water content was 71% of average and 32% below last year. North Fork Flathead Basin snow water content was 73% of average and 20% below last year; Middle Fork Flathead Basin was 77% of average and 20% below last year; South Fork Flathead Basin was 70% of average and 38% below last year; Stillwater-Whitefish basins were 62% of average and 41% below last year; Swan Basin was 70% of average and 37% below last year; Mission Valley Basin was 71% of average and 32% below last year; Little Bitterroot-Ashley Basins were 69% of average and 37% below last year; and the Jocko Basin was 58% of average and 41% below last year.

Mountain precipitation for December was 73% of average and 24% below last year. Water year precipitation, beginning October 1, 1993, was 72% of average and 25% below last year.

Reservoir storage on the last day of December was 117% of average and 56% above last year. Combined Camas reservoir storage was 97% of average; combined Mission Valley reservoir storage was 114% of average; Hungry Horse storage was 59% of average and 7% above last year and Flathead Lake storage was 82% of average and 5% above last year.

Streamflows, for the period April through July, are forecast to be 75% average and 16% below those of last year.

FLATHEAD RIVER BASIN
Streamflow Forecasts - January 1, 1994

	<=== Drier ===	Future Conditions	=== Wetter ===>			
Forecast Pt	========== Chance of Exceeding * ==========					
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
NF FLATHEAD nr Columbia Falls							
APR-JUL	855	1070	1210	73	1350	1560	1662
APR-SEP	975	1190	1340	73	1490	1700	1836
MF FLATHEAD nr West Glacier							
APR-JUL	835	1070	1230	75	1390	1620	1638
APR-SEP	935	1180	1350	76	1520	1770	1788
SF FLATHEAD nr Columbia Fls (1,2)							
APR-JUL	960	1390	1580	77	1770	2200	2051
APR-SEP	1040	1480	1680	77	1880	2320	2184
FLATHEAD at Columbia Falls (2)							
APR-JUL	3010	3660	4110	75	4560	5210	5482
APR-SEP	3360	4030	4480	75	4930	5600	5960
STILLWATER nr Whitefish							
APR-JUL	76	111	135	71	159	194	189
APR-SEP	89	126	151	72	176	215	209
WHITEFISH nr Kalispell							
APR-JUL	51	66	76	73	86	101	104
APR-SEP	59	75	86	74	97	113	116

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions 50% (Most Prob) (1000AF)	(% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
	Chance of Exceeding *						
SWAN nr Bigfork							
APR-JUL	365	435	480	82	530	595	583
APR-SEP	420	500	555	83	610	690	665
FLATHEAD nr Polson (1,2)							
APR-JUL	3160	4280	4790	75	5300	6420	6390
APR-SEP	3540	4680	5200	75	5720	6860	6926

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

FLATHEAD RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
CAMAS (4)	45.2	18.1	16.0	18.6
MISSION VALLEY (8)	100.0	38.7	25.0	33.8
HUNGRY HORSE	3451.0	1535.0	1438.0	2586.0
FLATHEAD LAKE	1791.0	1070.0	1021.0	1305.0

FLATHEAD RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
NORTH FORK FLATHEAD	6	81	71
MIDDLE FORK FLATHEAD	6	80	77
SOUTH FORK FLATHEAD	7	62	70
STILLWATER-WHITEFISH	2	59	62
SWAN	7	63	70
MISSION VALLEY	3	68	71
LITTLE BITTERROOT-ASHLEY	1	63	69
JOCKO	5	59	58
FLATHEAD	25	70	70

UPPER CLARK FORK RIVER BASIN as of January 1, 1994

Snowpack conditions in the Upper Clark Fork River Basin are below average. Snow water content was 70% of average and 23% below last year. Snow water content in the Clark Fork Basin above Flint Creek was 77% of average and 10% below last year; Flint Creek Basin was 78% of average and 9% below last year; Rock Creek Basin was 64% of average and 23% below last year; Clark Fork Basin above Blackfoot was 74% of average and 13% below last year; and the Blackfoot Basin was 64% of average and 31% below last year.

Mountain precipitation for December was 48% of average and 53% below last year. Water year precipitation, beginning October 1, 1993, was 69% of average and 31% below last year.

Reservoir storage on the last day of December was 117% of average and 56% above last year. Georgetown Lake storage was 102% of average and 24% above last year; Lower Willow Creek was 293% of average; and Nevada Creek storage was 164% of average and 137% above last year.

Streamflows, for the period April through July, are forecast to be 73% of average and 17% below last year.

UPPER CLARK FORK RIVER BASIN
Streamflow Forecasts - January 1, 1994

Forecast Pt Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions Chance of Exceeding * 50% (Most Prob) (1000AF)	(% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MOULTON RES inflow (million gal.)							
APR-JUN	83	144	185	87	225	290	212
APR-JUL	88	158	205	88	255	320	234
WARM SPRINGS CK at Anaconda (2)							
APR-JUL	20	29	34	89	40	48	38
APR-SEP	28	37	43	91	49	58	47
LITTLE BLACKFOOT nr Garrison							
APR-JUL	21	48	73	88	98	135	83
APR-SEP	22	53	80	90	107	146	89
FLINT CK nr Southern Cross (2)							
APR-JUL	6.2	10.1	12.8	90	15.5	19.4	14.2
APR-SEP	7.1	11.8	15.1	90	18.4	23	16.7
FLINT CK bl Boulder Ck							
APR-JUL	29	42	51	89	60	73	57
APR-SEP	38	54	65	89	76	92	73
LOWER WILLOW CK RES inflow							
APR-JUL	3.0	7.8	11.1	79	14.4	19.2	14.0
APR-SEP	3.6	8.5	11.9	80	15.3	20	14.8
MF ROCK CK nr Philipsburg							
APR-JUL	24	36	44	67	52	64	66
APR-SEP	28	41	50	68	59	72	74

Forecast Pt / Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions 50% (Most Prob) (1000AF)	(% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
	Chance of Exceeding *						
ROCK CK nr Clinton							
APR-JUL	79	150	198	67	245	315	296
APR-SEP	100	178	230	69	285	360	333
NEVADA CK nr Finn							
APR-JUL	3.4	7.5	12.1	63	16.7	24	19.1
APR-SEP	4.0	8.0	13.0	63	18.0	25	21
CLEARWATER nr Clearwater							
APR-JUL	84	112	131	76	150	178	172
APR-SEP	90	119	139	77	159	188	181
BLACKFOOT nr Bonner							
APR-JUL	325	485	590	71	695	855	835
APR-SEP	380	550	665	72	780	950	926
CLARK FORK ab Milltown							
APR-JUL	176	365	465	71	595	785	652
APR-SEP	225	440	540	72	680	890	755
CLARK FORK ab Missoula							
APR-JUL	530	845	1060	71	1270	1590	1487
APR-SEP	625	965	1200	71	1430	1780	1681

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

UPPER CLARK FORK RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
GEORGETOWN LAKE	31.0	28.4	22.9	27.9
LOWER WILLOW CREEK	4.9	4.1	0.9	1.4
NEVADA CREEK	12.6	6.4	1.1	3.9

UPPER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
CLARK FORK ab FLINT CREEK	12	90	77
FLINT CREEK	5	91	78
ROCK CREEK	3	77	64
CLARK FORK ab BLACKFOOT	18	87	74
BLACKFOOT	14	69	64
UPPER CLARK FORK	29	77	70

BITTERROOT RIVER BASIN as of January 1, 1994

Snowpack conditions in the Bitterroot River Basin are well below average. Snow water content was 61% of average and 39% below last year. The West Fork Bitterroot Basin snow water content was 57% of average and 45% below last year; East Side Bitterroot Basin snow water content was 58% of average and 33% below last year; and the West Side Bitterroot Basin was 64% of average and 39% below last year.

Mountain precipitation for December was 59% of average and 48% below last year. Water year precipitation, beginning October 1, 1993, was 64% of average and 30% below last year.

Reservoir storage on the last day of December was 33% of average and 142% above last year. Painted Rocks Lake storage was 17% of average and Como storage was 58% of average.

Streamflows, for the period April through July, are forecast to be 69% of average and 28% below last year.

BITTERROOT RIVER BASIN
Streamflow Forecasts - January 1, 1994

	<=== Drier ===	Future Conditions	=== Wetter ===>			
Forecast Pt	Chance of Exceeding *					
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
WF BITTERROOT nr Conner (2)							
APR-JUL	36	75	101	66	128	167	152
APR-SEP	44	86	114	69	142	184	166
BITTERROOT nr Darby							
APR-JUL	165	275	350	71	425	535	491
APR-SEP	200	315	390	72	465	580	540
ROCK CK nr Darby (2)							
APR-JUL	35	48	57	72	66	79	79
APR-SEP	39	52	61	73	70	83	83
SKALKAHO CK nr Hamilton							
APR-JUL	16.0	24	30	65	36	44	46
APR-SEP	20	30	36	68	42	52	53
BURNT FORK CK nr Stevensville (2)							
APR-JUL	11.0	17.0	22	76	27	33	29
APR-SEP	14.0	21	26	76	31	39	34

Forecast Pt Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions 50% (Most Prob) (1000AF)	(% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
	Chance of Exceeding *						
BITTERROOT at Missoula							
APR-JUL	445	705	880	68	1060	1320	1301
APR-SEP	535	790	965	68	1140	1390	1418

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

BITTERROOT RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
PAINTED ROCKS LAKE	31.7	2.3	2.7	13.9
COMO	34.9	5.2	0.4	9.0

BITTERROOT RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
WEST FORK BITTERROOT	2	55	57
EAST SIDE BITTERROOT	2	67	58
WEST SIDE BITTERROOT	4	61	64
BITTERROOT	8	61	61

LOWER CLARK FORK RIVER BASIN as of January 1, 1994

Snowpack conditions in the Lower Clark Fork River Basin are well below average. Snow water content was 60% of average and 38% below last year.

Mountain precipitation for December was 59% of average and 44% below last year. Water year precipitation, beginning October 1, 1993, was 64% of average and 27% below last year.
Noxon Rapids storage on the last day of December was 98% of average and the same as last year.

Streamflows, for the period April through July, are forecast to be 70% of average and 22% below last year.

LOWER CLARK FORK RIVER BASIN
Streamflow Forecasts - January 1, 1994

	<=== Drier ===	Future Conditions	--- Wetter --->			
Forecast Pt	========== Chance of Exceeding * ==========					
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
CLARK FORK ab Missoula							
APR-JUL	530	845	1060	71	1270	1590	1487
APR-SEP	625	965	1200	71	1430	1780	1681
CLARK FORK bl Missoula							
APR-JUL	995	1560	1940	70	2320	2880	2788
APR-SEP	1200	1780	2170	70	2560	3140	3099
CLARK FORK at St. Regis (1)							
APR-JUL	695	1960	2540	69	3120	4390	3686
APR-SEP	770	2180	2820	69	3460	4870	4095
CLARK FORK nr Plains (1,2)							
APR-JUL	3050	6050	7420	71	8790	11800	10450
APR-SEP	3360	6670	8170	71	9670	13000	11470
THOMPSON RIVER nr Thompson Falls							
APR-JUL	51	91	127	59	163	215	214
APR-SEP	67	106	145	60	184	240	240
PROSPECT CREEK at Thompson Falls							
APR-JUL	29	58	78	63	98	127	123
APR-SEP	36	66	86	65	106	137	132

Forecast Pt / Forecast Period	<--- Drier --- 90% (1000AF)	70% (1000AF)	Future Conditions --- 50% (Most Prob) (1000AF)	(% AVG.)	--- Wetter ---> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
	Chance of Exceeding *						
CLARK FK at Whitehorse Rpds (1,2)							
APR-JUL	3160	6550	8090	69	9630	13000	11730
APR-SEP	3500	7240	8930	69	10600	14400	12910

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

LOWER CLARK FORK RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
NOXON RAPIDS	335.0	311.3	311.2	317.1

LOWER CLARK FORK RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER CLARK FORK	29	77	70
BITTERROOT	8	61	61
LOWER CLARK FORK	9	61	60
CLARK FORK TOTAL	43	69	66
FLATHEAD	25	70	70
PEND OREILLE	64	70	69

JEFFERSON RIVER BASIN as of January 1, 1994

Snowpack conditions in the Jefferson River Basin are well below average. Snow water content was 63% of average and 35% below last year. The Beaverhead Basin snow water content was 52% of average and 48% below last year; the Ruby was 64% of average and 36% below last year; the Big Hole Basin was 61% of average and 30% below last year; and the Boulder Basin was 85% of average and 10% below last year.

Mountain precipitation for December was 63% of average and 41% below last year. Water year precipitation, beginning October 1, 1993, was 65% of average and 34% below last year.

Reservoir storage on the last day of December was 11% of average and 160% above last year. Lima storage was 146% of average; Clark Canyon storage was 104% of average and 118% above last year; and Ruby River storage was 100% of average.

Streamflows, for the period April through July, are forecast to be 63% of average and 32% below those of last year.

JEFFERSON RIVER BASIN
Streamflow Forecasts - January 1, 1994

Forecast Pt	<=== Drier ===	Future Conditions	=== Wetter ===>			
	Chance of Exceeding *					
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
RED ROCK RIVER near Monida							
APR-JUL	17.0	36	49	51	62	82	97
APR-SEP	9.0	32	48	46	64	87	105
BEAVERHEAD RIVER near Grant							
APR-JUL	7.0	31	52	39	73	104	132
APR-SEP	9.0	39	64	41	89	127	155
BEAVERHEAD RIVER at Barretts							
APR-JUL	27	59	81	47	103	136	172
APR-SEP	42	77	101	50	125	160	203
RUBY RIVER near Alder							
APR-JUL	19.0	38	51	61	64	83	83
APR-SEP	27	48	63	64	78	100	99
BIG HOLE RIVER near Melrose							
APR-JUL	255	400	500	78	600	745	641
APR-SEP	285	440	545	78	650	805	697
BOULDER RIVER near Boulder							
APR-JUL	36	59	75	88	91	114	85
APR-SEP	39	64	81	89	98	123	91
WILLOW CREEK near Harrison							
APR-JUL	4.4	7.1	9.7	55	14.6	22	17.7
APR-SEP	5.0	8.0	10.7	54	16.4	25	20

Forecast Pt Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions 50% (Most Prob) (1000AF)	(% AVG.)	=== Wetter ===> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
JEFFERSON RIVER near Three Forks							
APR-JUL	134	370	530	58	690	925	920
APR-SEP	156	410	580	57	750	1000	1012

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

JEFFERSON RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
LIMA	84.0	47.4	0.0	32.4
CLARK CANYON	255.6	148.3	67.9	142.1
RUBY RIVER	38.8	20.1	15.2	20.2

JEFFERSON RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
BEAVERHEAD	8	52	52
RUBY	4	64	64
BIGHOLE	9	70	61
BOULDER	6	90	85
JEFFERSON	21	65	63

MADISON RIVER BASIN as of January 1, 1994

Snowpack conditions in the Madison River Basin are well below average. Snow water content was 61% of average and 48% below last year. Snow water content above Hebgen Dam was 61% of average and 52% below last year and the Lower Madison Basin was 61% of average and 44% below last year.

Mountain precipitation for December was 82% of average and 45% below last year. Water year precipitation, beginning October 1, 1993, was 66% of average and 43% below last year.

Reservoir storage on the last day of December was 102% of average and 2% below last year. Ennis Lake storage was 85% of average and 2% below last year and Hebgen Lake storage was 104% of average and 2% below last year.

Streamflows, for the period April through July, are forecast to be 80% of average and 24% below those of last year.

MADISON RIVER BASIN
Streamflow Forecasts - January 1, 1994

	<=== Drier ===		Future Conditions		=== Wetter ===>		
Forecast Pt	==========		Chance of Exceeding *		==========		
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MADISON RIVER near Grayling							
APR-JUL	240	285	315	83	345	390	380
APR-SEP	320	375	410	84	445	500	486
MADISON RIVER near McAllister							
APR-JUL	385	465	515	78	565	645	662
APR-SEP	510	595	650	78	705	790	831

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

MADISON RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
ENNIS LAKE	41.0	28.5	29.0	33.7
HEBGEN LAKE	377.5	257.9	262.3	246.8

MADISON RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MADISON above HEBGEN	5	48	61
LOWER MADISON	6	56	61
MADISON	11	52	61

GALLATIN RIVER BASIN as of January 1, 1994

Snowpack conditions in the Gallatin River Basin are below average. Snow water content was 73% of average and 30% below last year. Snow water content in the upper Gallatin River Basin was 67% of average and 41% below last year and in the East Gallatin River Basin was 85% of average and 8% below last year.

Mountain precipitation for December was 97% of average and 6% below last year. Water year precipitation, beginning October 1, 1993, was 74% of average and 33% below last year.

Middle Creek storage on the last day of December was 115% of average and 30% above last year.

Streamflows, for the period April through July, are forecast to be 76% of average and 30% below those of last year.

GALLATIN RIVER BASIN
Streamflow Forecasts - January 1, 1994

	<--- Drier --- Future Conditions --- Wetter --->						
Forecast Pt	Chance of Exceeding *						
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
GALLATIN RIVER near Gateway							
APR-JUL	245	300	340	77	380	435	441
APR-SEP	300	360	405	78	450	510	518
E & W FK HYALITE CREEK near Bozeman							
APR-JUL	14.0	17.0	20	85	22	25	23
APR-SEP	17.0	21	23	88	26	29	26
HYALITE CREEK near Bozeman							
APR-JUL	21	27	31	86	35	42	36
APR-SEP	26	32	37	88	42	48	42
GALLATIN RIVER at Logan							
APR-JUL	196	295	365	73	435	535	498
APR-SEP	270	375	445	77	515	620	581

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

GALLATIN RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
MIDDLE CREEK	10.2	3.9	3.0	3.4

GALLATIN RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
UPPER GALLATIN	5	59	67
EAST GALLATIN	4	92	85
GALLATIN	8	70	73

MAINSTEM MISSOURI RIVER BASIN as of January 1, 1994

Snowpack conditions in the Mainstem Missouri River Basin are below average. Snow water content was 87% of average and 8% below last year. Snow water content in the West Side Missouri Basin was 81% of average and 9% below last year and the Smith-Belt Basins were 89% of average and 13% below last year.

Mountain precipitation for December was 72% of average and 33% below last year. Water year precipitation, beginning October 1, 1993, was 79% of average and 22% below last year.

Reservoir storage on the last day of December was 102% of average and 11% above last year. Canyon Ferry Lake storage was 102% of average and 11% above last year; Helena Valley storage was 100% of average and 6% below last year; Lake Helena storage was 107% of average and 2% above last year; Hauser & Helena storage was 103% of average and 1% above last year; Holter Lake storage was 106% of average and 1% above last year; and Fort Peck Lake storage was 97% of average and 38% above last year.

Streamflows, for the period April through July, are forecast to be 71% of average and 28% below those of last year.

MAINSTEM MISSOURI RIVER BASIN
Streamflow Forecasts - January 1, 1994

	<=== Drier ===		Future Conditions		=== Wetter ===>		
Forecast Pt	========== Chance of Exceeding * ==========						
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
MISSOURI RIVER at Toston							
APR-JUL	715	1180	1500	72	1820	2280	2075
APR-SEP	935	1430	1760	73	2090	2580	2416
PRICKLY PEAR CREEK near Clancy							
APR-JUL	3.0	14.0	21	91	29	40	23
APR-SEP	4.0	17.0	25	93	33	46	27
SUN RIVER at Gibson Dam							
APR-JUL	230	340	415	87	490	600	478
APR-SEP	265	380	460	87	540	655	526
MISSOURI RIVER at Fort Benton							
APR-JUL	935	1700	2220	72	2740	3500	3087
APR-SEP	1280	2090	2636	72	3190	3990	3678
MARIAS RIVER near Shelby							
APR-JUL	87	245	350	78	455	615	447
APR-SEP	118	275	385	79	495	650	487
MISSOURI RIVER at Virgelle							
APR-JUL	805	1860	2570	71	3280	4330	3595
APR-SEP	1280	2320	3028	72	3730	4770	4217
MISSOURI RIVER near Landusky							
APR-JUL	1430	2250	2810	72	3370	4190	3897
APR-SEP	1530	2600	3335	73	4070	5140	4580

Forecast Pt / Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
	<=== Drier ===	Future Conditions	Chance of Exceeding *		=== Wetter ===>		
MISSOURI RIVER below Fort Peck							
APR-JUL	985	2070	2810	70	3550	4640	4015
APR-SEP	870	2250	3194	72	4140	5520	4467
LAKE SAKAKAWEA Inflow							
APR-JUL	4100	6030	7330	74	8630	10600	9897
APR-SEP	4610	6950	8538	75	10100	12500	11346

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

MAINSTEM MISSOURI RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
CANYON FERRY LAKE	2043.0	1721.0	1543.0	1690.0
HELENA VALLEY	9.2	5.1	5.4	5.1
LAKE HELENA	10.4	11.1	10.9	10.4
HAUSER & HELENA	61.9	63.6	63.1	61.7
HOLTER LAKE	81.9	81.0	80.0	76.7
FORT PECK LAKE (MAF)	18.9	14.6	10.6	15.1

MAINSTEM MISSOURI RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MISSOURI HEADWATERS	35	62	66
WEST SIDE MISSOURI	6	91	81
SMITH-BELT	4	87	89
MAINSTEM MISSOURI	10	89	86
SUN-TETON-MARIAS	7	86	83
JUDITH-MUSSELSHELL	5	100	87
MISSOURI above FORT PECK	52	71	72
MILK RIVER	8	90	95
MISSOURI in MONTANA	57	73	73
MISSOURI blw YELLOWSTONE	101	76	72

SMITH-JUDITH-MUSSELSHELL RIVER BASINS as of January 1, 1994

Snowpack conditions in the Smith-Judith-Musselshell River Basin were slightly below average. Snow water content was 88% of average and 6% below last year. Snow water content in the Smith-Belt Basins were 89% of average and 13% below last year and the Judith-Musselshell Basins were 87% of average and the same as last year.

Mountain precipitation for December was 104% of average and 18% above last year. Water year precipitation, beginning October 1, 1993, was 96% of average and 6% below last year.

Reservoir storage on the last day of December was 146% of average and 40% above last year. Smith River storage was 149% of average and 184% above last year; Newlan Creek storage was 134% of average; Bair storage was 146% of average and 38% above last year; Martinsdale storage was 187% of average and 191% above last year; and Deadman's Basin was 139% of average and 3% below last year.

Streamflows, for the period April through July, are forecast to be 92% of average 18% above those of last year.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Streamflow Forecasts - January 1, 1994

	<--- Drier ---	Future Conditions	--- Wetter --->			
Forecast Pt	Chance of Exceeding *					
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SMITH RIVER near Fort Logan							
APR-JUL	31	46	57	92	68	84	62
APR-SEP	41	58	69	95	81	98	73
SHEEP CREEK nr White Sulphur Springs							
APR-JUL	12.2	15.2	17.2	95	19.2	22	18.1
APR-SEP	15.0	18.0	20	95	22	25	21
NF MUSSELSHELL near Delpine							
APR-JUL	1.5	3.2	4.4	92	5.6	7.3	4.8
APR-SEP	1.9	3.8	5.1	91	6.4	8.3	5.6
SF MUSSELSHELL abv Martinsdale							
APR-JUL	11.0	33	48	92	63	85	52
APR-SEP	13.0	36	51	91	66	89	56

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
SMITH RIVER	10.6	8.8	3.1	5.9
NEWLAN CREEK	12.4	11.9	----	8.9
BAIR	7.0	5.4	3.9	3.7
MARTINSDALE	23.1	17.2	5.9	9.2
DEADMAN'S BASIN	72.2	56.2	58.2	40.3

SMITH-JUDITH-MUSSELSHELL RIVER BASINS
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SMITH-BELT	4	87	89
JUDITH-MUSSELSHELL	5	100	87

SUN-TETON-MARIAS RIVER BASINS as of January 1, 1994

Snowpack conditions in the Sun-Teton-Marias River Basin are below average. Snow water content was 83% of average and 14% below last year. Snow water content in the Sun-Teton Basins was 85% of average and 7% below last year and in the Marias Basin was 82% of average and 16% below last year.

Mountain precipitation for December was 57% of average and 57% below last year. Water year precipitation, beginning October 1, 1993, was 77% of average and 25% below last year.

Reservoir storage on the last day of December was 129% of average and 18% above last year. Gibson storage was 112% of average and 63% above last year; Pishkun storage was 112% of average; Willow Creek storage was 146% of average; Lower Two Medicine Lake storage was 182% of average and 3% below last year; Four Horns Lake storage was 105% of average and 5% below last year; Swift storage was 150% of average and 85% above last year; Lake Frances storage was 136% of average and 154% above last year; and Lake Elwell (Tiber) storage was 129% of average and 8% above last year.

Streamflows, for the period April through July, are forecast to be 82% of average and 10% below those of last year.

SUN-TETON-MARIAS RIVER BASINS
Streamflow Forecasts - January 1, 1994

Forecast Pt Forecast Period	<--- Drier --- 90% (1000AF)	70% (1000AF)	Future Conditions --- Chance of Exceeding * 50% (Most Prob) (1000AF)	(% AVG.)	--- Wetter ---> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SUN RIVER at Gibson Dam							
APR-JUL	230	340	415	87	490	600	478
APR-SEP	265	380	460	87	540	655	526
TWO MEDICINE RIVER near Browning							
APR-JUL	73	132	172	80	210	270	215
APR-SEP	84	143	183	80	225	285	228
BADGER CREEK near Browning							
APR-JUL	39	67	85	82	103	131	104
APR-SEP	50	79	99	83	119	148	120
SWIFT RESERVOIR Inflow near Dupuyer							
APR-JUL	21	43	58	85	73	95	68
APR-SEP	31	54	69	86	85	107	80
DUPUYER CREEK near Valier							
APR-JUL	3.1	6.2	12.9	83	20	31	15.5
APR-SEP	4.3	7.8	14.3	82	22	34	17.4
CUT BANK CREEK at Cut Bank							
APR-JUL	24	50	68	78	86	112	87
APR-SEP	30	58	76	79	95	122	96

Forecast Pt Forecast Period	<--- Drier --- 90% (1000AF)	70% (1000AF)	Future Conditions 50% (Most Prob) (1000AF)	(% AVG.)	--- Wetter ---> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
Chance of Exceeding *							
MARIAS RIVER near Shelby							
APR-JUL	87	245	350	78	455	615	447
APR-SEP	118	275	385	79	495	650	487

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

SUN-TETON-MARIAS RIVER BASINS
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
GIBSON	99.1	45.8	27.9	41.0
PISHKUN	32.0	20.1	19.4	17.9
WILLOW CREEK	32.2	30.4	21.9	20.8
LOWER TWO MEDICINE LAKE	11.9	11.8	12.1	6.5
FOUR HORNS LAKE	19.2	13.0	13.7	12.4
SWIFT	30.0	20.7	11.2	13.8
LAKE FRANCES	112.0	94.4	37.1	69.6
LAKE ELWELL (TIBER)	1347.0	762.6	704.8	590.6

SUN-TETON-MARIAS RIVER BASINS
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
SUN-TETON	3	93	85
MARIAS	4	84	82
SUN-TETON-MARIAS	7	86	83

ST. MARY and MILK RIVER BASINS as of January 1, 1994

Snowpack conditions in the St. Mary and Milk River Basins were below average. Snow water content was 86% of average and 89% of last year. Snow water content in the Saint Mary River Basin was 86% of average and 11% below last year. In the Milk River Basin, the Milk headwaters was 83% of average and 25% below last year, the Bear Paw Mountains were 128% of average and 33% above last year.

Mountain precipitation for December was 77% of average and 33% below last year. Water year precipitation, beginning October 1, 1993, was 72% of average and 30% below last year.

Reservoir storage on the last day of December was 86% of average and 41% above last year. Lake Sherburne storage was 130% of average and 12% above last year; Fresno storage was 35% of average and 35% below last year; Beaver Creek storage was 150% of average and 4% above last year; and Nelson storage was 130% of average and 258% above last year.

Streamflows, for the period April through July, are forecast to be 76% of average and 14% below those of last year.

ST. MARY and MILK RIVER BASINS
Streamflow Forecasts - January 1, 1994

	<--- Drier ---		Future Conditions		--- Wetter --->		
Forecast Pt	Chance of Exceeding *						
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
SWIFTCURRENT CREEK at Sherburne							
APR-JUL	59	73	82	77	91	105	107
APR-SEP	73	87	97	78	107	121	125
ST. MARY RIVER near Babb							
APR-JUL	240	275	300	76	325	360	395
APR-SEP	285	325	355	77	385	425	463
MILK RIVER at Eastern Crossing							
MAR-SEP	141	179	205	79	230	270	258

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

ST. MARY and MILK RIVER BASINS
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
LAKE SHERBURNE	64.3	27.5	24.6	21.1
FRESNO	127.0	18.4	28.4	53.1
BEAVER CREEK	3.5	2.7	2.6	1.8
NELSON	66.8	49.4	13.8	38.0

ST. MARY and MILK RIVER BASINS
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
MILK HEADWATERS	3	75	83
BEAR PAW	5	133	128
MILK RIVER	8	90	95
ST. MARY	4	80	77
ST. MARY and MILK	9	89	86
BOW RIVER in ALBERTA	0	0	0
OLDMAN RIVER in ALBERTA	0	0	0

UPPER YELLOWSTONE RIVER BASIN as of January 1, 1994

Snowpack conditions in the Upper Yellowstone River Basin were well below average. Snow water content was 69% of average and 22% below last year. The Yellowstone River Basin above Livingston was 60% of average and 34% below last year, the Shields River Basin was 82% of average and 4% below last year, the Boulder-Stillwater River Basins were 83% of average and 17% below last year and the Clark's Fork-Rock Creek Basins were 67% of average and 23% below last year.

Mountain precipitation for December was 74% of average and 38% below last year. Water year precipitation, beginning October 1, 1993, was 73% of average and 25% below last year.

Reservoir storage on the last day of December was 96% of average and 2% below last year. Mystic Lake storage was 60% of average and 3% below last year and Cooney storage was 126% of average and 2% below last year.

Streamflows, for the period April through July, are forecast to be 78% of average and 17% below those of last year.

UPPER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - January 1, 1994

	<=== Drier ===	Future Conditions	=== Wetter ===>				
Forecast Pt	========== Chance of Exceeding * ==========						
Forecast Period	90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
YELLOWSTONE RIVER at Corwin Springs							
APR-JUL	850	1050	1180	73	1310	1510	1609
APR-SEP	1030	1270	1430	74	1590	1830	1937
YELLOWSTONE RIVER near Livingston							
APR-JUL	950	1190	1350	73	1510	1750	1855
APR-SEP	1180	1460	1650	74	1840	2120	2241
SHIELDS RIVER near Livingston							
APR-JUL	62	102	130	80	158	198	162
APR-SEP	75	117	145	81	173	215	179
BOULDER RIVER at Big Timber							
APR-JUL	198	240	270	81	300	340	335
APR-SEP	215	260	290	80	320	365	364
WEST ROSEBUD CREEK near Roscoe							
APR-JUL	38	47	52	85	58	66	61
APR-SEP	50	60	66	84	72	82	79
STILLWATER RIVER nr Absarokee							
APR-JUL	290	390	455	91	520	620	498
APR-SEP	365	470	540	91	610	715	593
CLARKS FORK RIVER near Belfry							
APR-JUL	270	355	410	77	465	550	532
APR-SEP	315	405	470	80	535	625	590

Forecast Pt Forecast Period	<--- Drier --- Future Conditions --- Wetter ---> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
RED LODGE CREEK blw Cooney Res							
APR-JUL	18.0	36	48	102	60	78	47
APR-SEP	28	46	58	102	70	88	57
YELLOWSTONE RIVER at Billings							
APR-JUL	1960	2500	2870	80	3240	3780	3577
APR-SEP	2390	2990	3400	81	3810	4410	4211

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

UPPER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********** This Year	Last Year	Average
MYSTIC LAKE	21.0	7.0	7.2	11.6
COONEY	27.4	17.7	18.1	14.0

UPPER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
YELLOWSTONE ab LIVINGSTON	11	66	60
SHIELDS	4	96	82
BOULDER-STILLWATER	3	83	83
CLARK'S FORK-ROCK CREEK	9	77	67
UPPER YELLOWSTONE above BIGH	23	78	69

LOWER YELLOWSTONE RIVER BASIN as of January 1, 1994

Snowpack conditions in the Lower Yellowstone River Basin are below average. Snow water content was 72% of average and 18% below last year. The Bighorn River Basin, in Wyoming, was 70% of average and 16% below last year, the Little Bighorn Basin was 90% of average and 9% below last year, the Tongue River Basin, in Wyoming, was 80% of average and 22% below last year and the Powder River Basin, in Wyoming, was 91% of average and 2% above last year.

Mountain precipitation for December was 73% of average and 26% below last year. Water year precipitation, beginning October 1, 1993, was 90% of average and 6% below last year.

Reservoir storage on the last day of December was 99% of average and 3% below last year. Bighorn Lake storage was 100% of average and 4% below last year and Tongue River storage was 78% of average and 10% above last year.

Streamflows, for the period April through July, are forecast to be 77% of average and 13% below those of last year.

LOWER YELLOWSTONE RIVER BASIN
Streamflow Forecasts - January 1, 1994

Forecast Pt Forecast Period	<=== Drier === Future Conditions === Wetter ===> Chance of Exceeding * 90% (1000AF)	70% (1000AF)	50% (Most Prob) (1000AF)	(% AVG.)	30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
YELLOWSTONE RIVER at Billings							
APR-JUL	1960	2500	2870	80	3240	3780	3577
APR-SEP	2390	2990	3400	81	3810	4410	4211
BIGHORN RIVER nr St. Xavier							
APR-JUL	635	910	1095	67	1280	1560	1645
APR-SEP	660	990	1210	67	1430	1760	1794
LITTLE BIGHORN RIVER nr Hardin							
APR-JUL	24	85	126	90	167	230	140
APR-SEP	30	97	142	90	187	255	157
TONGUE RIVER near Decker							
APR-JUL	102	158	196	89	235	290	221
APR-SEP	129	183	220	90	255	310	244
YELLOWSTONE RIVER at Miles City							
APR-JUL	2670	3510	4080	75	4650	5490	5431
APR-SEP	3140	4110	4770	76	5430	6400	6281
POWDER RIVER at Moorhead							
APR-JUL	87	139	174	82	210	260	211
APR-SEP	118	167	200	86	235	285	232
POWDER RIVER near Locate							
APR-JUL	186	205	220	87	235	255	252
APR-SEP	155	210	245	89	280	335	276

Forecast Pt Forecast Period	<=== Drier === 90% (1000AF)	70% (1000AF)	Future Conditions 50% (Most Prob) (1000AF)	(% AVG.)	=== Wetter ==> 30% (1000AF)	10% (1000AF)	30 Yr Avg (1000AF)
	========== Chance of Exceeding * ==========						
YELLOWSTONE RIVER nr Sidney							
APR-JUL	3220	4050	4620	78	5190	6020	5925
APR-SEP	3440	4480	5180	76	5880	6920	6814

* 90%, 70%, 30%, and 10% chances of exceeding are the probabilities that the actual flow will exceed the volumes in the table.

The average is computed for the 1961-1990 base period.

(1) - The values listed under the 10% and 90% Chance of Exceeding are actually 5% and 95% exceedance levels.
(2) - The value is natural flow - actual flow may be affected by upstream water management.

LOWER YELLOWSTONE RIVER BASIN
Reservoir Storage (1000AF) End of December

Reservoir	Usable Capacity	********** Usable Storage ********* This Year	Last Year	Average
BIGHORN LAKE	1356.0	888.2	920.4	891.8
TONGUE RIVER	68.0	20.3	18.4	26.0

LOWER YELLOWSTONE RIVER BASIN
Watershed Snowpack Analysis - January 1, 1994

Watershed	Number of Data Sites	This Year as Percent of Last Year	Average
WIND RIVER (Wyoming)	10	76	64
BIGHORN RIVER (Wyoming)	15	84	70
LITTLE BIGHORN	2	91	90
TONGUE RIVER (Wyoming)	5	78	80
POWDER RIVER (Wyoming)	6	102	91
YELLOWSTONE RIVER	47	80	72

Federal Building, Room 443
10 E. Babcock
Bozeman, MT 59715

Montana
Basin Outlook Report

Soil Conservation Service
Bozeman, MT

SOIL CONSERVATION SERVICE